



Cedar Mine

1. Location/Land Status: The Cedar Mine is located on BLM land within Section 20, T11N, R9W on the USGS Grants quadrangle (35.166602N, 107.805431W). Physical access to the mine can be gained by traveling east from Grants on East Roosevelt Ave. past the sand and gravel mining operation and onto the mesa.

2. Human Activity: The Cedar Mine is directly adjacent to an active sand and gravel mining operation operated by B-b Concrete. Trash (heavy equipment, air filters, etc.) has been discarded on-site. A buried gas pipeline crosses the site in a north-south direction. The nearest residence is approximately 1,000 feet to the east of the site.

3. Radiological Survey: Radiological survey results were as follows: ground surface maximum of 170 $\mu\text{R}/\text{hour}$ and minimum of 3 $\mu\text{R}/\text{hour}$. Four-foot elevation maximum was 80 $\mu\text{R}/\text{hour}$ and minimum was 7 $\mu\text{R}/\text{hour}$. Background radiation levels were approximately 10 $\mu\text{R}/\text{hour}$.

4. Mine Disturbance: The mine consists of seven lateral exploratory cuts extending east-west an average of 1,200 feet. To the west of these cuts are two shallow pits (one approximately 180 ft. in diameter by 10 ft. deep maximum, noted as large pit in photo, the other approximately 75 ft. by 25 ft., 3 ft depth), as well as two rock piles associated with the east-west cuts on the east margin of the site. These piles are 340 and 460 feet long respectively, approximately 4 feet wide and approximately two feet thick. A pile approximately 35 feet in diameter and three feet thick exists on the east margin of the site, and a pile approximately 15 feet in diameter and 2 ft. thick is present in the center of the site.

Equipment remaining on-site includes an old truck, an engine, and what appears to be a powder box.

5. Plant Community: The surrounding vegetation is predominately grasses with the occasional juniper tree. The vegetation on site is characteristic of the surrounding area and consists of: 30% grasses, 40% forbs, 10% woody scrub, 1% non-native, and the remainder is bare earth.

6. Soils: Soils at the site are Penistaja fine sandy loam, a deep, well-drained loam, formed in wind-modified alluvium derived dominantly from sandstone.

7. Wildlife: There was no wildlife sign directly observed on this site except for rodent burrows and a possible badger hole.

8. Land Use: As discussed above, a sand and gravel operation abuts the site.

9. Off-Site Impacts: No off-site impacts were noted.

10. Topographic Features: The access road to the site is from the south. The site is flat-lying. No erosional features were noted.

11. Hydrogeology: Based on a review of the NMOSE iWaters database, there are five well records within a radius of one mile of the site. Three of these wells have depth to water data on file, with depths to water of 94, 100 and 122 ft.

The nearest surface water drainage feature is approximately 0.5 miles to the southeast.



View west, pipeline marker, gravel pit in distance



View north



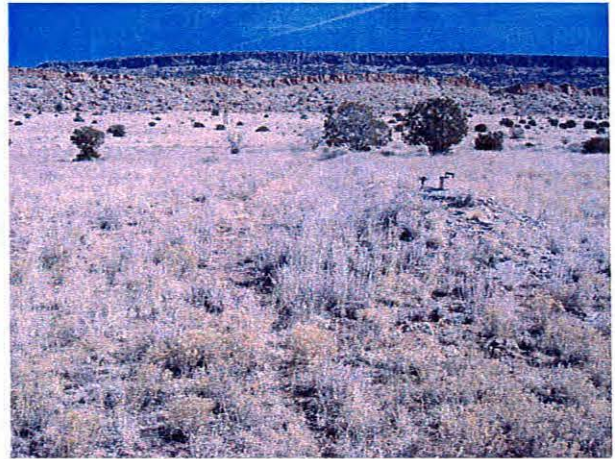
View north, pipeline, old truck



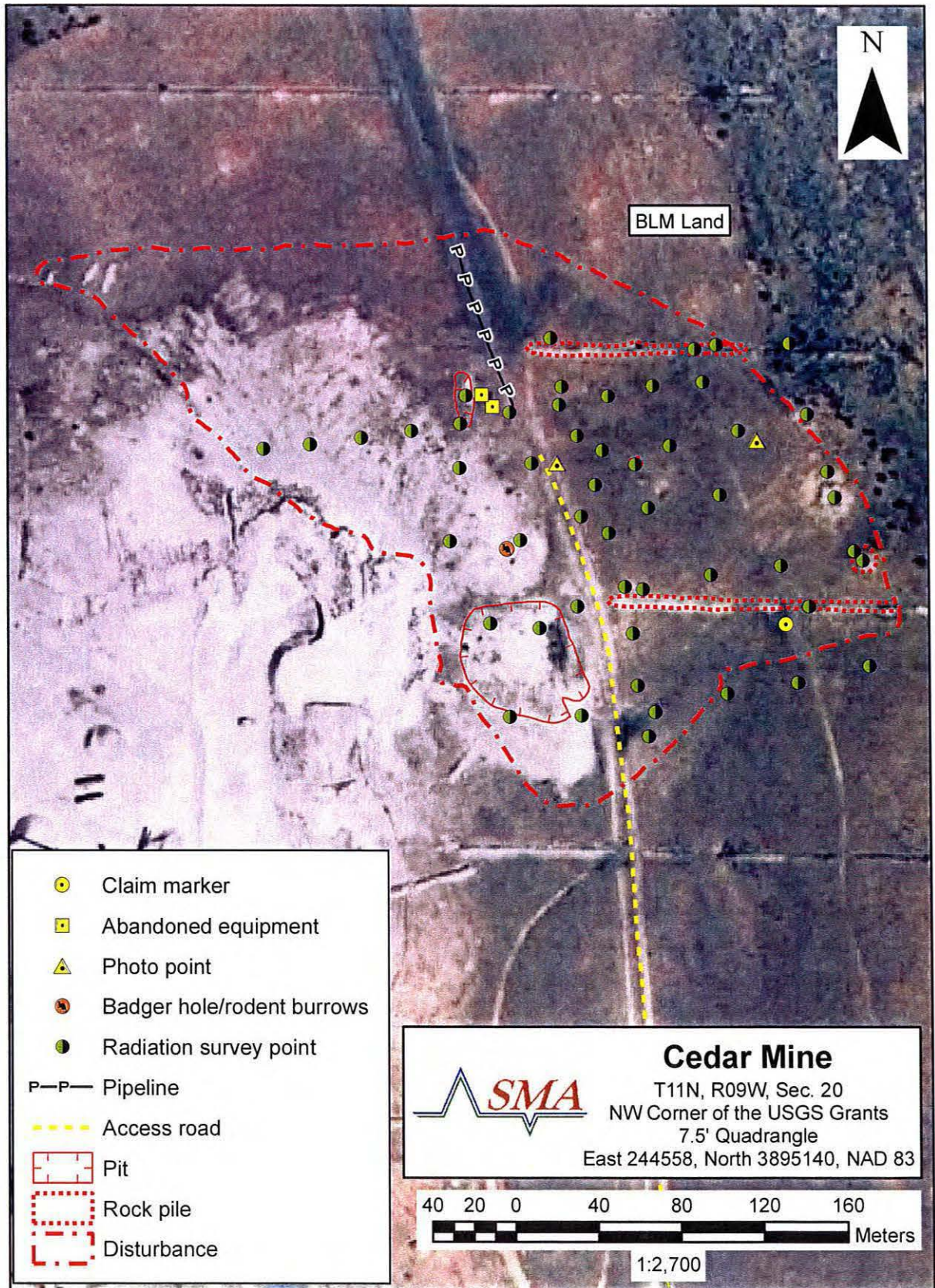
View southwest to sand and gravel op.



View of large pit



E-W rock pile



AUM Field Survey Data Sheet

Site

Cedar

Page

1

Date	2/12/09	Time On-Site	835	Time Off-Site	1350	By	Timi Ross & Brian MERTZ
Weather Conditions: clear, sunny, calm							
Disturbances	GPS#	Description	Dim/Area/Volume	Photo #'s			
Shafts							
Adits							
Pits	29	suspender power box in center	5' diam, 80' diam.	11			
	39	large pit	70' diameter	20, 21, 22			
	44	depression pit	3' deep	26			
Waste Rock Dumps	23	Blonde cut bank 2-W rock pile, near transverse site	3' H x 100'	8, 9			
	30	cut pit 30x30x3'	30x30x3'	10			
	33	cut 2-W rock pile	3.5' diam x 100'	16, 17			
Tailings	36	waste pile w/ debris	.5 yd ³	18			
Trenches							
Roads	47	access road		28			
Erosional Features							
Structures / Equipment	GPS#	Description	Dimensions	Photo #			
Buildings	38	timber wall portion	6' x 4'	19			
Headframes							

1032 lost PRC - too high 6.72 photo #13
1046 - Head surveyor said recommend wait out satellites

AUM Field Survey Data Sheet

Site

CEDAR

Equipment	28 42 43	suspected powder box marker truck	2' x 3'	13 24 25
Soils	GPS#	Description	Extent	Photo #
Vegetation	GPS#	Description	Extent	Photo #
juniper-phen	NA	view of site or surrounding trees	7' diameter	11
juniper	31	center of pit w/ powder box	2.5' H	14, 13
bull thistle	35, 41			18, 23
Wildlife	GPS#	Description		Photo #
rodent holes	26	mt waste pile		10, 12
rodent holes	21	pit w/ powder house		14
Human Activity (non-mining, w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
		gravel pit adj to west side of mine la.		20, 21, 22
	46	pipeline		27
Land Use (grazing, agricultural, roads, etc., w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
	21	suspected mine marker		CEDAR 7
Nearby Residences / Wells (w/in 0.5 mi of site)	GPS#	Description	Distance to Site	Photo #
Topographic Features (roads, water courses, etc.)	GPS#	Description		Photo #

AUM Field Survey Data Sheet

Site

CEDAR

--	--	--	--

AUM Field Survey Data Sheet

Site

Radiological Survey 50 SCALE			
GPS#	Description	Reading Surface	Reading 4 feet
OFF SITE	ENTR G SITE FUR DRICKGARDIN	10mR/hr	8mR/hr
2	Geiger base pt for e-w x-sec	12mR/hr	10mR/hr
3	30' from base pt e-w x-sec	16mR/hr	16mR/hr
4	60' from base pt e-w x-sec	8mR/hr	10mR/hr
5	90' from base pt e-w x-sec	8mR/hr	16mR/hr
6	120' from base pt e-w x-sec	9mR/hr	9mR/hr
7	150' from base pt e-w x-sec	10mR/hr	10mR/hr
8	180' from base pt e-w x-sec	11mR/hr	11mR/hr
9	210' from base pt e-w x-sec	15mR/hr	17mR/hr
10	240' from base pt e-w x-sec	16mR/hr	22mR/hr
11	270' from base pt e-w x-sec	10mR/hr	10mR/hr
12	base pt for N-S x-sec	10mR/hr	10mR/hr

AUM Field Survey Data Sheet

Site CEDAR

--	--	--	--

AUM Field Survey Data Sheet

Site _____

Radiological Survey <u>50</u> scale			
GPS#	Description	Reading Surface	Reading 4 feet
13	30' from base pt N-S X SEC	10uR/hr	14uR/hr
14	60' from base pt N-S X SEC	12uR/hr	10uR/hr
15	90' from base pt N-S X SEC	12uR/hr	11uR/hr
16	120' from base pt N-S X SEC	11uR/hr	11uR/hr
17	150' from base pt N-S X SEC	11uR/hr	11uR/hr
18	180' from base pt N-S X SEC	13uR/hr	12uR/hr
19	210' from base pt N-S X SEC	10uR/hr	10uR/hr
20	240' from base pt N-S X SEC	8uR/hr	10uR/hr
25	WASTE PILE - CUT BLUE AREA - NE 1/4 of strip of rocks	3uR/hr	7uR/hr
26	cliff west pile photo 10	8uR/hr	7uR/hr
28	small pit w/ powder box	13uR/hr	10uR/hr
34	waste pile from cut E-W	8uR/hr	8uR/hr

AUM Field Survey Data Sheet

Site CEDAR

--	--	--	--

AUM Field Survey Data Sheet

Site _____

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
34	west pile - rocks	250 scale 17 mR/hr	250 scale 8 mR/hr
40	hot spot in large pit	250 scale 20 mR/hr	250 scale 4 mR/hr
45	center of depression (44)	15 mR/hr	12 mR/hr
34		170	80
40		80	40
45		15	12

Mine I.D.:

CEDAR

Plant Community Data

(6)

Date/Time:

Weather:

Observer:

Current Plant Community:

Photo#

P-3 savannah (Mostly juniper one seed)
40% Forb (Snake weed, winterfat) 30% grass (B. gracilis) 10% Brush
(4 wing salt brush), 19% bare soil, 1% bull thistle (non native)

Other Species Present:

Photo #

Cholla, senecio

T&E Present: Y/N?

If yes, species?

Photo #

NO

Noxious Weeds: Y/N?

If yes, species?

Photo #

YES Bullthistle (1 plant)

Bare Spots? Y/N?

Number of spots/size

Photo #

yes 10% of cover

Standing Dead? Y/N?

If yes, species?

Photo #

NO

Photo Point GPS Coord.

Photo #/Direction

SEE PREVIOUS

Additional Notes:

Use back if necessary

AUM Field Survey Data Sheet

Site AUM - Cedar 2008-3-6

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G0	lead survey <i>photo-✓</i> ✓	14	12
G1	"	12	10
G2	"	16	20
G3	"	16	13
G4	"	10	8
G6	" ✓	13	11
G7	" ✓	12	8
G8	"	14	7
G9	"	14	11
G10	"	11	10
G11	"	15	14
G12	" ✓	32	30
G13	" ✓	26	24
G14	"	40	40
G15	"	10	10

AUM Field Survey Data Sheet

Site AUM - Cedar 2008-3-16

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G16	Rad. survey	12	10
G17	"	10	10
G18	" ✓	8	8
G19	" ✓	10	10
G20	"	10	10
G21	"	10	10
G22	"	14	12
G23	"	21	17
G24	" ✓	13	12
G25	" ✓	21	20
G26	"	19	17
G27	"	12	10
G28	"	10	10
G29	"	10	10
G30	" ✓	10	10